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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/784,773	02/24/2004	Shunji Nakamura	030086A	8337	
38834	7590 08/23/2004		EXAM	EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			NGUYEN, DAO H		
SUITE 700	ECTICUT AVENUE, NW		ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC 20036		2818		
			DATE MAILED: 08/23/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

	· ·	Applicati	on No.	Applicant(s)			
Office Action Summary		10/784,7	73	NAKAMURA, SHUNJI			
		Examine	r	Art Unit			
		Dao H Ng	juyen	2818			
T Period for R	he MAILING DATE of this commun			orrespondence address			
A SHOR THE MA - Extension after SIX If the peri - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD F ILING DATE OF THIS COMMUN s of time may be available under the provisions (6) MONTHS from the mailing date of this commod for reply specified above is less than thirty (3 od for reply is specified above, the maximum st reply within the set or extended period for reply received by the Office later than three months a tent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no evalunication. 0) days, a reply within the statetutory period will apply and wwill, by statute, cause the app	rent, however, may a reply be tim tutory minimum of thirty (30) days vill expire SIX (6) MONTHS from olication to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status							
1)⊠ Re	sponsive to communication(s) file	ed on <u>24 June 2004</u> .					
2a) ☐ Th							
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition	of Claims						
4a) 5)⊠ Cla 6)⊠ Cla 7)□ Cla 8)□ Cla	aim(s) <u>15-24</u> is/are pending in the Of the above claim(s) is/a aim(s) <u>15-23</u> is/are allowed. aim(s) <u>24</u> is/are rejected. aim(s) is/are objected to. aim(s) are subject to restrict	re withdrawn from co					
Application	Papers						
10)⊠ The Ap Re	e specification is objected to by the drawing(s) filed on 24 February plicant may not request that any objected the placement drawing sheet(s) including on other or declaration is objected to	2004 is/are: a)⊠ acction to the drawing(s) the correction is requi	be held in abeyance. See red if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority und	er 35 U.S.C. § 119						
a) [/ 1.[2.[3.[☐ Certified copies of the priority ☐ Certified copies of the priority	documents have been documents have been of the priority documental Bureau (PCT Ru	en received. en received in Applicati ents have been receive le 17.2(a)).	on No. <u>10/352,028</u> . ed in this National Stage			
Attachment(s)	References Cited (PTO-892)		4) Interview Summary	(PTO-413)			
2) Notice of 3) Information	Draftsperson's Patent Drawing Review (Fon Disclosure Statement(s) (PTO-1449 or (s)/Mail Date <u>0204</u> .		Paper No(s)/Mail Da				

DETAILED ACTION

In response to the communications dated 02/24/2004 through 06/24/2004, claims
 15-24 are active in this application as a result of the cancellation of claims 1-14 in the
 Preliminary Amendment.

Acknowledges

- 2. Receipt is acknowledged of the following items from the Applicant.
- a. Information Disclosure Statement (IDS) filed on 02/24/2004 and made of record as Paper No. 0204. The references cited on the PTOL 1449 form have been considered.
- b. This application is a Divisional of the co-pending Application No. 10/352,028 filed 01/28/2003 now Patent No. 6,731,494.

Foreign Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in parent Application No. 10/352,028.

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Specification

4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejection - Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claim 24 is rejected under the judicially created doctrine of double patenting over claim(s) 1 and/or 15 of U.S Patent No. 6,731,494 (hereafter 494'), since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: claim(s) 1 and/or 15 of 494' disclose(s) a capacitor comprising upper and lower electrodes and a dielectric layer interposed therebetween, wherein at least one of the lower electrode and upper electrode is an electrode of a metal substituted layer.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claim(s) 24 is/are rejected under 35 U. S. C. § 102 (b) as being anticipated by U.S. Patent No. 6,197,634 to Schuegraf.

Regarding claim 24, Schuegraf discloses a semiconductor device, as shown in figures 2-7, comprising a capacitor including a lower electrode 38 formed on a substrate 12, and upper electrode 36 opposed to the lower electrode 38, and a capacitor dielectric film 34 formed at least between the lower electrode 38 and the upper electrode 36; and at least one of the lower electrode and the upper electrode is an electrode of a metal substituted layer. See column 2, lines 36-65; and column 4, lines 37-66.

Reasons for Allowance

9. Claim(s) 15-23 would be allowed.

The following is an examiner's statement of reason for allowance:

None of the references of record teaches or suggests the claimed methods for fabricating capacitor(s) comprising (in addition to the other limitations in the claim) forming the metal substituted electrode(s) by substituting a constituent atom of the electrode(s) with a metal atom of a metal layer through opening(s) in an insulating film formed on the upper electrode.

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Conclusion

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10. A shortened statutory period for response to this action is set to expire 3 (three)

months and 0 (zero) day from the day of this letter. Failure to respond within the period

for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dao H. Nguyen whose telephone number is (571)272-

1791. The examiner can normally be reached on Monday-Friday, 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Nelms can be reached on (571)272-1787. The fax numbers for all

communication(s) is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (571)272-

1625.

David Neims

Supervisory Patent Examiner

Technology Center 2800

Dao H. Nguyen Art Unit 2818

August 19, 2004